

Purchase Order Receipt Listing

Monday, September 11, 2017 1:20:08 PM

<i>All Vendors</i>	<i>PO ID PO37671</i>	<i>Receipt Dates from 9/8/2017 to 9/8/2017</i>	<i>All Line Item Types</i>
<i>All Item ID/GL/WOs</i>	<i>All Rec. Employees</i>	<i>All Currencies</i>	
<i>Grouped by Vendor ID</i>			

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-CAM002	Acier Ouellette Inc.								
PO37671	1 CAD	M303R1.500 m138470	f f 14 9-89	DAS	9/11/2017 12.0000	9/8/2017 PLOU01	12.0000 ✓	\$15.60 \$187.14	0.0000 0.0000	0 0	\$187.14
	2 No	M303R0.750 303 Round Bar 0.750 m138470	f 14 9-89	DAS	9/11/2017 12.0000	9/8/2017 PLOU01	12.2000 ✓	\$3.53 \$43.11	0.0000 0.0000	0 0	\$43.11
	3 No	M304R0.375 304 ROUND BAR 0.375 m138470	f 14 9-89	DAS	9/11/2017 12.0000	9/8/2017 PLOU01	12.3000 ✓	\$0.82 \$10.15	0.0000 0.0000	0 0	\$10.15
	5 No	M304S20GA 304/316 .040 Sheet m138470	sf sf 5 0-89	DAS	9/11/2017 64.0000	9/8/2017 PLOU01	64.0000 ✓	\$3.12 \$199.54	0.0000 0.0000	0 0	\$199.54
	6 No	M1018R0.625 M1018R0.625 m138470	f 14 9-89	DAS	9/11/2017 20.0000	9/8/2017 PLOU01	18.9000 ✓	\$0.83 \$15.67	0.0000 0.0000	0 0	\$15.67
	7 No	M1018R0.500 1018-1025 round bar .500 m138470	f 14 9-89	DAS	9/11/2017 20.0000	9/8/2017 PLOU01	18.9000	\$0.53 \$10.06	0.0000 0.0000	0 0	\$10.06
	8 No	M1018B0.250x1.500 1010-1025 Steel Bar .250 x 1.500 m138470	f f 14 500	DAS	9/11/2017 12.0000	9/8/2017 PLOU01	12.2000 ✓	\$1.48 \$18.11	0.0000 0.0000	0 0	\$18.11
	9 No	M1018B2.500X6.000 1010-1025 Steel Bar 2.500 x 6.000 m138470	f f 14 9-89	DAS	9/11/2017 3.0000	9/8/2017 PLOU01	3.0000 ✓	\$131.87 \$395.62	0.0000 0.0000	0 0	\$395.62
	10 No	M4140HRO.750 4140 round bar 750 m138470	f f 14 9-89	DAS	9/11/2017 3.0000	9/8/2017 PLOU01	3.0000 ✓	\$3.73 \$11.18	0.0000 0.0000	0 0	\$11.18

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PO37671	11	M4140HJR2.00	f	1.995	9/11/2017	9/8/2017	3,0000	\$15.55	0	\$46.66	
CAD	No	M4140HJR2.00	f		3,0000	PL0U01		\$46.66	0	0	
	m138470	M6061T6B0.375X01.1	DAS 14 9-89	000	9/11/2017	9/8/2017	20.0000	\$0.95	0	\$19.10	
	No	6061T6 BAR .375 x 1.00			20.0000	PL0U01		\$19.10	0	0	
	m138470	M6061T6B0.500X1.5	DAS 14 9-89	00	9/11/2017	9/8/2017	20.0000	\$1.91	0	\$38.19	
	No	6061T6 BAR 0.500 f X 1.500			20.0000	PL0U01		\$38.19	0	0	
	m138470	M6061T6B1.000X5.0	DAS 14 9-89	00	9/11/2017	9/8/2017	12.0000	\$14.34	0	\$172.03	
	No	6061T6 BAR 1.000 f X 5.000			12.0000	PL0U01		\$172.03	0	0	
	m138470	M6061T6B1.250X3.0	DAS 14 9-89	00	9/11/2017	9/8/2017	12.0000	\$10.75	0	\$129.04	
	No	6061T6 BAR 1.250 f X 3.000			12.0000	PL0U01		\$129.04	0	0	
	m138470	M6061T6R5.000	DAS 14 9-89	5.000"	9/11/2017	9/8/2017	3,0000	\$56.68	0	\$170.05	
	No	6061-T6 Round Bar			3,0000	PL0U01		\$170.05	0	0	
	m138470	M6061T6R2.250	DAS 14 9-89	2.250"	9/11/2017	9/8/2017	2,0000	\$11.45	0	\$22.91	
	No	6061-T6 Round Bar			2,0000	PL0U01		\$22.91	0	0	
	m138470	71401-45			9/11/2017	9/8/2017	1.0000	\$0.00	0	\$0.00	
	No	PROCUREMENT QUALITY CLAUSESQ			1.0000	PL0U01		\$0.00	0	0	
		ml38470									

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Total Received Quantity:

Total Qty to Inspect (PO U/M):

0.0000

0.0000

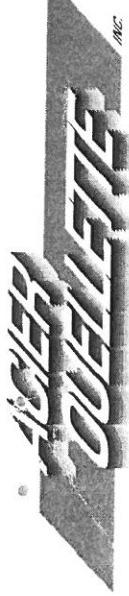
Total Reject Quantity:

\$1,488.55

Total Receipt Value:

0.0000

Total Balance Due Quantity:



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Instruction F-M

Delivery Route 5

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°
Date
Delivery date
Your order N°
Processed by
Salesman
Carrier
Credit Terme
Page

Net 30 Days

Instruction	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
					CMD	EXP	B/O	IN	I	S
1	ROUND SS 3/4 303 RANDOM RSS-34303-V	18.02	12.00	PI_ \$CLB						
	1 X 12' R/L									
2	ROUND SS 3/8 304 (12R) RSS-38-12	4.51	12.00	PI_ \$CLB						
	1 X 12' R/L									
3	SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B	134.40	64.00	PJ2_ \$CLB						
	2 X 4' X 8'									
4	SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B	100.48	64.00	PI2_ \$CLB						
	2 X 4' X 8'									

SO17-9-11

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

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935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

CLI0001056

2017/09/06

2017/09/08

PO37671

Frederic Leboeuf

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

OUELLETTE VALLEYFIELD

Net 30 Days

Shipped to

Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

5

OUELLETTE VALLEYFIELD

Net 30 Days

Page

Credit Terme

Carrier

Salesman

Processed by

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Delivery date

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2017/09/08

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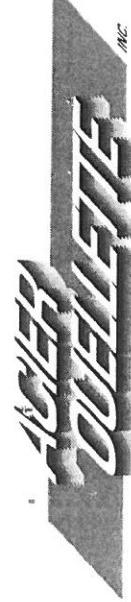
Delivery date

Date

Customer N°

CLI0

DELIVERY - CLIENT



CO00049626

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction

F-M

Delivery Route

5

, Ontario,

OUELETTE VALLEYFIELD

Net 30 Days

Customer N°

CLI0001056

2017/09/06

2017/09/08

Shipped to

PO37671

Frederic Leboeuf

Your order N°

PO37671

Processed by

Salesman

Carrier

Credit Terme

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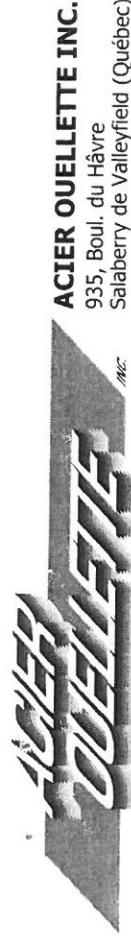
3

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
COUPE A LA SCIE SCIE	1	1.00	UN							OUT
<i>1 X 3'</i>										
9 ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PI-\$CLB							
COUPE A LA SCIE SCIE	1	1.00	UN							OUT
<i>1 X 3'</i>										
10 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610	9.00	20.00	PI-\$CLB							
<i>1 X 20'</i>										

8/17/09-10

NIR : R-109516-6

Next Page...



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1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

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Salesman



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C000049626

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to	Shipped to
DART AEROSPACE LTD	
1270 , ABERDEEN ST.	
HAWKESBURY, Ontario, K6A 1K7	, Ontario,
Your order Nº	PO37671
Processed by	Frederic Leboeuf
Salesman	
Carrier	QUELLETTE VAU

Your order №	Processed by	Salesman
Billed to	Shipped to	
DART AEROSPACE LTD		

Billed to	Shipped to
DART AEROSPACE LTD	
1270 , ABERDEEN ST.	, Ontario,
HAWKESBURY, Ontario, K6A 1K7	
Your order Nº	PO37671
Processed by	Frederic Leboeuf
Salesman	
Carrier	OUELLETTE VAL

11270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

1 x 12' R/L
AC9030 - TH - 2017/09/07

NIR : R-109516-6

[Next Page...](#)



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OUELLETTE VALLEYFIELD

Frederic Leboeuf

PO37671

Billed to

Shipped to

DART AEROSPACE LTD

Ontario,

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DART AEROSPACE LTD

Ontario,

OUELLETTE VALLEYFIELD

Frederic Leboeuf

DELIVERY - CLIENT



CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

2017/09/08

Your order №
PO37671

Frederic Leboeuf

Billed to
DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to
, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Credit Terme
Net 30 Days

Processed by
Salesman

Carrier

OUELETTE VALLEYFIELD

Page 1

Instruction	F/M	Product Description	Weight	Qty	U/M	PCS NB	Internal Use Only						
							CMD	EXP	B/O	IN	I	S	C
1	ROUND SS 3/4 303 RANDOM	5761	18.02	12.00	PL_SCLB								
	RSS-34303-V												
	1 X 12' R/L												
	HEAT: W4B3												
2	ROUND SS 3/8 304 (12R)	5763	4.51	12.00	PL_SCLB								
	RSS-38-12												
	1 X 12' R/L												
	HEAT: CH-3840												
3	SHEET SS 18G SS304-2B (4 X 8)		134.40	64.00	PI2_SCLB								
	FESS-18G483042B	3425											
	2 X 4' X 8'												
	HEAT: 0L4V												

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.
Fax: 450-377-5696 MU: 514-336-4246 Ext.

C000049626

Billed to		Shipped to		Processed by			
DART AEROSPACE LTD		, Ontario,		Frederic Leboeuf			
1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7		OUELLETTE VALLEYFIELD					
		Att : CHANTAL LAVOIE Tél.: 613-632-5200					
Instruction	F-M	Delivery Route	5	Credit Terme		Page	
Product Description		Weight	Qty	U/M	PCS NB	Internal Use Only	
		CMD	EXP	B/O	IN	I	S
		C	C	C	C	C	OUT
<i>HEAT 916205</i>							
7 FLAT CR TR4-X1 1/2 1018 (12R) FCR-14112-12	2731	15.30	12.00	PI_SCLB			
<i>1 x 12' fl</i>							
<i>HEAT W26482</i>							
8 ROUND 4140 HEAT TR 493/4 (20R) R4140-34H-20	4948				3.00	PI_SCLB	
<i>HEAT M52573</i>							
COUPE A LA SCIE SCIE	1				1.00	UN	
<i>1 X 3'</i>							

NIR : R-109516-6

Next Page...

DELIVERY - CLIENT**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

2017/09/08

PO37671
Frederic Leboeuf

Billed to	Shipped to	Customer N°									
Instruction	F-M	Date									
Product Description	Weight	Qty	U/M	CMD	EXP	B/O	IN	I	S	C	OUT
9 ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00	PL_SCLB								
HEAT: M56776 COUPE A LA SCIE SCIE 1		1.00	UN								
1 X 3'											
10 FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610	9.00	20.00	PL_SCLB								
1 X 20' HEAT: 3B4191											

NIR : R-109516-6



DELIVERY - CLIENT

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.

C000049626

NIR : R-109516-6

[Next Page...](#)



DELIVERY - CLIENT

CO00049626

ACIER OUELETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to	Shipped to	Customer N°	Date	Delivery date	Your order N°	Processed by	Salesman	Carrier	Credit Terme	Page	PCS NB	Internal Use Only		
Instruction	F-M	Delivery Route	Att : CHANTAL LAVOIE Tél.: 613-632-5200	Delivery Route	5	Page	CMD	EXP	B/O	IN	I	S	C	OUT
HEAT: ESO4036	DART AEROSPACE LTD	935, Boul. du Havre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	935, Boul. du Havre Salaberry de Valleyfield (Québec) J6S 5L1 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242	, Ontario,		6								
14	ROUND ALU 5 6061-T6 (12) RAL-5-12	5164	69.12	3.00	PI_SCLB									
	COUPE A LA SCIE													
	SCIE	1												
	1 X 3"													
15	ROUND ALU 2 1/4 6061-T6 (20) RAL-214-20	5144	9.34	2.00	PI_SCLB									
	HEAT: 68252													

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,
OUELETTE VALLEYFIELD

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route

5

Page

7

Shipped to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,
OUELETTE VALLEYFIELD

Credit Terme

Net 30 Days

Customer N°

CL10001056

Date

2017/09/06

Delivery date

2017/09/08

Your order N°

PO37671

Processed by

Frederic Leboeuf

Salesman

Carrier

OUELETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

7

Internal Use Only

Instruction	F-M	Product Description	Weight	Qty	U/M	CMD	EXP	B/O	IN	I	S	C	OUT
		COUPE A LA SCIE				1.00	UN						
		SCIE	1										
16	RSS-112303-V	ROUND SS 1 1/2 303 RANDOM NS 8859		72.11		12.00	PL_SCLB						
		1 x 12' R/L											
		AC9030 - TH - 2017/09/07											
		HEAT: 333B											
17	FCR-2126-V	FLAT CR 2 1/2 X 6 1018 RANDOM NS 8860		153.00		3.00	PI						
		1 X 3'											
		AC9031 - GR - 2017/09/08											
		BAE											
		5											
		HEAT: 207H175											
		9-89											

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00049626

ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

OUELETTE VALLEYFIELD

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Net 30 Days

Credit Terme

Page

Your order N°

Customer N°

Date

PO37671

Frederic Leboeuf

Salesman

Carrier

Internal Use Only

IN

I

S

C

OUT

CMD

EXP

B/O

Y

M

D

8

Customer's Signature

Date

Total Weight (Lbs) : 797.35 **NIR : R-109516-6**
Conditions :
 All sold and delivered materials remain the property of "Acer Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acer Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acer Ouellette Inc." to the client. The buyer hereby accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.
 Total (\$CAD)

Prepared By :	Verified By :	Delivered By :	Time
---------------	---------------	----------------	------

Customer's Signature

Date



METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K 1Z3
Canada

Certificate: 107119 5
Customer: 007035 510

Your Order: 770967

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Drawn
ASTM A582/112 EN 10204 3.1, ASTM A484/11
NAS 56640U TYPE 1, QQS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

NAS Order: PN 0056401 02

REMARKS:

COMPLIES W/ REQUIREMENTS OF DFAR 252.225-7009 EO DIRECTIVE
2011/65/EU-ROHS, EAF+ADG+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

DAS
14 17/09/B
9-89

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Places	Commodity Code
BH4444_0		.7500		1.151	144.00		2	1 71469845
HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	NI %
WAB3	US	.0473	.1185	17.2850	.3305	1.7960	.2720	.0532
		S %	SI %					
		.3495	.4945					

MECHANICAL PROPERTIES

Product Id	1 d c i c r	HB No.	2YS KSI	UTS KSI	RA %	Elong % 4D	Technical Dept. Mgr.
BH4444_0	R L	222.0	82.69	102.54	34.29	23.26	ABHIJEET BHAVE - <u>Ashish</u>

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

ABHIJEET BHAVE - Ashish
10/22/2015

#5763

RSS - 38-12 48194

PO 6840



CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2000 CERTIFICATE No. 04 120 01202

ADM. OFFICE: 64, SHIV SAGAR, N. S. PATEL MARG, DELHI-110027, INDIA
Tel: 91-11- 46200000, Fax: 91-11- 46200000/14
Website : www.chandasteel.net
Email : mail@chandasteel.net

WORKS: Plot No. 32, C. I. D. C., Undriyana
Dist. Valsad, Gujarat - 396 171.
Tel: 91-266-308 9999 Fax: 91-266 308 9972
E-mail : export@chandasteel.net

L/c. No.:

L/c. Date:

FORM QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204 : 2005

				Test Certificate No. : EXP/00337 - 13/2016-2017							
				Date of Issue : 08.07.2016							
				P. O. No. : P004712							
				SC_No. & Date : 15-16/00924, Dt. 13.04.2016							
				Invoice No. & Date : EXP/00337/2016-17 Dt.08.07.2016							
PRODUCT DESCRIPTION STAINLESS STEEL ROUND BARS				LENGTH							
				Ordered	Actual						
				12' - 12'6"							
Heat No.	Grade AISI/DIN	Size mm/inches	Tolerance	Process Route							
CH-3840	304/304L 14301/14307 UNS#SS30400/S90415	3/8"	±9	Electric Melting, A.O.D. Refining, Continuous Casting,							
CHEMICAL COMPOSITION (Weight %)											
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N
Min.	-	-	-	-	-	18.00	-	8.00	-	-	-
Max.	0.080	1.00	2.00	0.045	0.030	20.00	1.00	10.50	1.00	-	0.1000
Results	0.019	0.42	1.71	0.040	0.020	18.21	0.32	8.05	0.41	0.10	0.0690
MECHANICAL PROPERTIES											
Specified Values	Test Method :- EN ISO 6992-1					Hardness EN ISO 6506-1 (BHN)	Test Method :-Charpy 'V' Notch Impact Tested (mm) as per DIN EN ISO 148-1 Sample Size - Test Temp. :- 20 °C (joules)				
	Proof Strength N/mm² / MPa		Tensile Strength N/mm² / MPa (Rm)	Elongation after Fracture A	Reduction of Area		I	II	III	Avg.	
	0.2% (Rp0.2)	1% (Rp1.0)		%	%						
Results	514	560	712	47	65	215-218	N.A.	N.A.	N.A.	N.A.	
Remarks:											
1. Cold drawn & Centrelas Ground. 2. Solution annealed at 1050 °C. 3. PMI test done 100% & found Satisfactory. 4. Material is free from radio-active contamination. 5. Material is free from mercury contamination. 6. Inter-Granular Corrosion Test as per ASTM A262 - 15 (Pr.E) satisfactory. 7. No welding or weld repairs were performed on this material while in our possession. 8. Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation. 9. Grain size - No. 7-8 of ASTM as per E112-96. 10. The material Conforms to ASTM A276-15, ASTM A182/A182M-15, ASME SA 182/SA 182M-15, ASTM A479/A479M-15 ASME SA479/SA-479M-15, ASTM A193/A193M-12b B5 - CL1, ASME SA193/SA193M-15 B5 - CL1, ASTM A320/A320M-11 B5 CL1, ASME SA320/SA 320M-10 B5 CL1, AMS-QQ-S-768 COND A, AMS - 5639H, AMS - 5647H, EN 10088-3 : 2014 & DIN EN 10222-2008 Specification. 11. Location of sample - Centre, Direction - Longitudinal, Test Temp - Room Temp, Shape of Test Piece - Round. 12. Marking details - Company Logo, Size, Grade & Heat No. 13. The material is manufactured / melt in Chandan Steel Mill and is of Indian Origin.											
BUNDLE NO.: 47 to 51 COLOUR : RED											

It is hereby certified that the above results are true and correct in every detail and are meeting the requirements of specification & purchase order.

B. S. RAUTELA
MANAGER - QUALITY ASSURANCE



YONGJIN

MILL TEST REPORT

DATE:2016-7-31
Invoice No.:SECAB26503TDS
CERTIFICATE NO.:PPCNQC6506TDS

GOODS: STAINLESS STEEL COLD ROLLED COILS 2B FINISH, AS PER AISI 304 PRIME QUALITY,
SLITTING EDGE WITH PAPER INTERLEAVED,
TYPE: 304 SPEC:ASTM A240/480 ASME SA240/480

NO.	Surface	Heat No.	Coil No.	DIMENSIONS		Weight (MT) (N/mm ²)	Mechanical Properties			State
				Y.S. (N/mm ²)	Elong. %		T.S. (N/mm ²)	Hardness		
1	2B	160612C11	YJJ16Z05996A	0.024 INCH X 48.00 INCH X COIL	9.648	671	270	58	159/161/162	P536015
2	2B	160625B01	YJJ16Z05945A	0.030 INCH X 48.00 INCH X COIL	9.241	690	279	56	167/167/168	P554523
3	2B	160629D02	YJJ16Z05961A	0.035 INCH X 48.00 INCH X COIL	7.010	690	280	55	167/168/169	P554653
4	2B	160629D02	YJJ16Z05961C	0.035 INCH X 48.00 INCH X COIL	7.084	690	280	55	167/168/169	P554654
5	2B	160629D02	YJJ16Z05961B	0.035 INCH X 48.00 INCH X COIL	6.915	690	280	55	167/168/169	P55466
TOTAL:					39.898					

CHEMICAL COMPOSITION %

NO.	C	Si	Mn	P	S	Cr	Ni	N	Mo	Ti	Cu
1	0.036	0.43	1.16	0.026	0.004	18.15	8.06	0.050	0.024	/	0.08
2	0.044	0.39	1.06	0.024	0.002	18.34	8.01	0.051	0.004	/	0.02
3	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	/	0.03
4	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	/	0.03
5	0.044	0.59	1.17	0.026	0.003	18.19	8.04	0.046	0.004	/	0.03

REMARKS We hereby certify that the material described herein has been manufactured and tested with satisfactory results in accordance with the requirements of the material specification.

Quality Dept.

Deber



RCR-58-20

#5

TRA 1469 535

48493
3P.

ARANA Y LUPARDO, 2
48490 UGAO-MIRAVELLES/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704 <i>Delivery Note Nr.</i>	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE <i>CUSTOMER</i>
---	--

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

Nº PEDIDO <i>Purchase Order</i>	DETALLE / <i>Description</i>	KGS	TOLERANCIA <i>TOLERANCE</i>	OF	MEDIDA <i>Measurement</i>
PAR-47152	12L14 HEX. ESTIRADO 31,75 (1 1/4")	996	0,076	915907	31,75
PAR-47472	12L14 RED. ESTIRADO 50,80 (2")	1.034	- 0,076	916489	50,80
PAR-47851	12L14 RED. ESTIRADO 50,80 (2")	1.090	0,076	916489	50,80
PAR-47851	1018 RED. ESTIRADO 31,75 (1 1/4")	994	- 0,051	139211	31,75
MJP-47856	12L14 RED. ESTIRADO 25,40 (1")	3.000	- 0,051	139256	25,40
PAR-47786	1018 RED. ESTIRADO 30,16 (1 3/16")	1.090	0,051	139297	30,16
PAR-47786	12L14 RED. ESTIRADO 19,05 (3/4")	2.002	- 0,051	202433	19,05
MJP-47861	12L14 HEX. ESTIRADO 31,75 (1 1/4")	994	0,076	915907	31,75
OU-47812	1018 RED. ESTIRADO 9,53 (3/8")	1.040	0,051	139333	9,53
SM-47572	1018 RED. ESTIRADO 9,53 (3/8")	1.040	- 0,051	139477	9,53
SM-47572	1018 RED. ESTIRADO 31,75 (1 1/4")	1.988	- 0,051	139481	31,75
AQM-47672	1018 RED. ESTIRADO 31,75 (1 1/4")	1.990	- 0,051	139547	31,75
OU-47832	12L14 RED. ESTIRADO 19,05 (3/4")	1.998	- 0,051	202433	19,05
OU-47832	1018 RED. ESTIRADO 15,88 (5/8")	2.004	- 0,051	139624	15,88
OU-47832	1018 RED. ESTIRADO 31,75 (1 1/4")	996	- 0,051	139627	31,75
MJP-47896	1018 RED. ESTIRADO 15,88 (5/8")	1.010	- 0,051	139776	15,88

Composición química de la colada / Chemical Analysis of Heat

MEDIDA <i>Measurement</i>	OF	COLADA <i>Cast Nr.</i>	% C	% Cr	% Cu	% Mn	% Mo	% Ni	% P	% Pb	% S	% Si	
31,75	0,00	915907	39680 W	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
50,80	0,00	916489	41232 IS	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
50,80	0,00	916489	41232 IS	0,060	0,000	0,000	1,120	0,000	0,000	0,043	0,220	0,318	0,010
31,75	0,00	139211	41410 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
25,40	0,00	139256	41300 AG	0,060	0,086	0,014	1,130	0,006	0,023	0,061	0,300	0,310	0,003
30,16	0,00	139297	41411 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202433	41406 AA	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
31,75	0,00	915907	39680 W	0,070	0,090	0,230	1,110	0,030	0,110	0,051	0,210	0,329	0,020
9,53	0,00	139333	41460 GM	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
9,53	0,00	139477	41460 GM	0,160	0,000	0,000	0,750	0,000	0,000	0,021	0,000	0,032	0,160
31,75	0,00	139481	41410 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
31,75	0,00	139547	41410 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
19,05	0,00	202433	41406 AA	0,071	0,046	0,019	1,085	0,004	0,029	0,060	0,295	0,292	0,008
15,88	0,00	139624	41508 G	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142
31,75	0,00	139627	41410 AG	0,165	0,000	0,000	0,758	0,000	0,000	0,016	0,000	0,021	0,220
15,88	0,00	139776	41508 G	0,160	0,000	0,000	0,650	0,000	0,000	0,021	0,000	0,023	0,142

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVELLES/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: cnpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704 Delivery Note Nr.	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER
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Norma : EN 10277 Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm : Bright steel products. Technical delivery conditions.

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strength N/mm ²	Lím. elástico Yield point 0,2% N/mm ²	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
50,80	916489	41232 IS	515,66	509,28	16,20	178,00	53,91
50,80	916489	41232 IS	515,66	509,28	16,20	178,00	53,91
31,75	139211	41410 AG	558,02	536,07	36,40	159,00	57,29
25,40	139256	41300 AG	556,11	543,10	19,46	159,00	46,32
30,16	139297	41411 AG	551,06	525,36	37,06	165,00	59,43
19,05	202433	41406 AA	584,38	568,82	16,86	172,00	47,83
31,75	915907	39680 W	533,38	523,05	12,04	169,00	45,79
9,53	139333	41460 GM	735,60	691,90	12,70	216,00	59,96
9,53	139477	41460 GM	735,60	691,90	12,70	216,00	59,96
31,75	139481	41410 AG	558,02	536,07	36,40	159,00	57,29
31,75	139547	41410 AG	558,02	536,07	36,40	159,00	57,29
19,05	202313	41406 AA	584,38	568,82	16,86	172,00	47,83
15,88	139624	41508 G	602,29	574,24	20,18	176,00	60,19
31,75	139627	41410 AG	558,02	536,07	36,40	159,00	57,29
15,88	139776	41508 G	602,29	574,24	20,18	176,00	60,19

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
12L14 RED. ESTIRADO 50,80 (2")	916489	2
12L14 RED. ESTIRADO 50,80 (2")	916489	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139211	3
12L14 RED. ESTIRADO 25,40 (1")	139256	3
1018 RED. ESTIRADO 30,16 (1 3/16")	139297	2
12L14 RED. ESTIRADO 19,05 (3/4")	202433	3
12L14 HEX. ESTIRADO 31,75 (1 1/4")	915907	1
1018 RED. ESTIRADO 9,53 (3/8")	139333	2
1018 RED. ESTIRADO 9,53 (3/8")	139477	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139481	3
1018 RED. ESTIRADO 31,75 (1 1/4")	139547	3
12L14 RED. ESTIRADO 19,05 (3/4")	202313	3
1018 RED. ESTIRADO 15,88 (5/8")	139624	2
1018 RED. ESTIRADO 31,75 (1 1/4")	139627	3
1018 RED. ESTIRADO 15,88 (5/8")	139776	2

DAS
14
9-89
17/09/83



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVELLES/VIZCAYA (SPAIN)
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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47704

ALBARAN 47704 <i>Delivery Note Nr.</i>	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE <i>CUSTOMER</i>
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Norma : EN 10277 Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma : Bright steel products. Technical delivery conditions.

Observaciones: BARRAS DE ACERO ESTRIADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfills the order specifications..

Fecha/Date: 08/06/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
SG 9001:2008
www.tuv.com
ID: 1101-10024



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)
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Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

TIA 1242 #6.

5266

48011

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977 <i>Delivery Note Nr.</i>	CLIENTE I.E.S ACTIERS TRANSBEC (1997) LTÉE <i>CUSTOMER</i>
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Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

Nº PEDIDO <i>Purchase Order</i>	DETALLE DEL PRODUCTO / <i>Description</i>	KGS.	TOLERANCIA <i>TOLERANCE</i>	OF	MEDIDA <i>Measurement</i>
OU-47007	1018 CUA. ESTIRADO 12,70 (1/2")	960	- 0,110	916205	12,70
OU-47007	1018 CUA. ESTIRADO 50,80 (2")	1.204	- 0,190	138237	50,80
MJP-47224	1018 RED. ESTIRADO 25,40 (1")	2.006	0,051	138229	25,40
PAR-47152	1018 CUA. ESTIRADO 50,80 (2")	2.400	0,190	138236	50,80
PAR-47472	1018 CUA. ESTIRADO 38,10 (1 1/2")	834	- 0,160	916334	38,10
PAR-47472	1018 CUA. ESTIRADO 12,70 (1/2")	980	- 0,110	916205	12,70
PAR-47472	1018 CUA. ESTIRADO 50,80 (2")	1.204	- 0,190	138491	50,80
PAJ-47284	1018 CUA. ESTIRADO 6,35 (1/4")	1.000	- 0,090	915673	6,35
PAJ-47284	1018 CUA. ESTIRADO 12,70 (1/2")	1.218	- 0,110	916205	12,70
PAJ-47284	1018 CUA. ESTIRADO 50,80 (2")	1.198	0,190	138520	50,80
PAR-47490	1018 RED. ESTIRADO 25,00	4.960	- 0,051	138774	25,00
OU-47436	1018 RED. ESTIRADO 12,70 (1/2")	1.086	- 0,051	138832	12,70
VI-47383	1018 CUA. ESTIRADO 6,35 (1/4")	992	- 0,090	915673	6,35
VI-47383	1018 CUA. ESTIRADO 25,40 (1")	633	0,130	916070	25,40
CA-46398	1018 CUA. ESTIRADO 50,80 (2")	1.196	- 0,190	139048	50,80
PAR-47756	1018 CUA. ESTIRADO 25,40 (1")	1.020	- 0,130	916070	25,40
MJP-47531	1018 CUA. ESTIRADO 6,35 (1/4")	992	- 0,090	916198	6,35

Composición química de la colada / Chemical Analysis of Heat

MEDIDA <i>Measurement</i>	OF	COLADA <i>Cast Nr.</i>	% C	% Mn	% P	% S	% Si
12,70 0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80 0,00	138237	41336 C	0,150	0,710	0,012	0,012	0,160
25,40 0,00	138229	41198 G	0,160	0,630	0,007	0,010	0,136
50,80 0,00	138236	41336 C	0,150	0,710	0,012	0,012	0,160
38,10 0,00	916334	40753 C	0,190	0,790	0,019	0,017	0,200
12,70 0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80 0,00	138491	41336 C	0,150	0,710	0,012	0,012	0,160
6,35 0,00	915673	40073 G	0,150	0,770	0,007	0,026	0,235
12,70 0,00	916205	41079 S	0,161	0,802	0,006	0,023	0,268
50,80 0,00	138520	41336 C	0,150	0,710	0,012	0,012	0,160
25,00 0,00	138774	41198 G	0,160	0,630	0,007	0,010	0,136
12,70 0,00	138832	41218 GM	0,160	0,720	0,013	0,012	0,170
6,35 0,00	915673	40073 C	0,150	0,770	0,007	0,026	0,235
25,40 0,00	916070	40439 SR	0,180	0,760	0,017	0,028	0,220
50,80 0,00	139048	41336 C	0,150	0,710	0,012	0,012	0,160
25,40 0,00	916070	40439 SR	0,180	0,760	0,017	0,028	0,220
6,35 0,00	916198	40073 G	0,150	0,770	0,007	0,026	0,235

DAS
14
9-89
7/09/93

Características mecánicas / Mechanical properties



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)
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www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 46977

ALBARAN 46977 <i>Delivery Note Nr.</i>	CLIENTE LES ACIERS TRANSBEC (1997) LTÉE <i>CUSTOMER</i>
---	--

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

MEDIDA <i>Measurement</i>	OF <i>Cast Nr.</i>	COLADA <i>Cast Nr.</i>	Resistencia Tens. strength N/mm ²	Lím.elástico Yield point 0,2% N/mm ²	Alargamiento Elongation Lo - 50 mm.	Dureza HB Hardness HB	Estriccción %
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138237	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	138229	41198 G	566,93	548,05	26,50	172,00	54,84
50,80	138236	41336 C	515,00	330,00	34,00	0,00	0,00
38,10	916334	40753 C	500,00	330,00	32,00	0,00	0,00
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138491	41336 C	515,00	330,00	34,00	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
12,70	916205	41079 S	600,76	559,59	15,12	190,00	0,00
50,80	138520	41336 C	515,00	330,00	34,00	0,00	0,00
25,00	138774	41198 G	621,60	600,60	14,14	185,00	52,83
12,70	138832	41218 GM	555,00	0,00	30,60	0,00	0,00
6,35	915673	40073 G	822,40	791,50	7,94	258,00	47,07
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
50,80	139048	41336 C	515,00	330,00	34,00	0,00	0,00
25,40	916070	40439 SR	511,00	358,00	33,30	0,00	0,00
6,35	916198	40073 G	822,40	791,50	7,94	258,00	47,07

Calidad Superficial

DESCRIPCIÓN <i>Description</i>	OF	Clase <i>EN 10277-1</i>

Observaciones: BARRAS DE ACERO E STIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.
QUALITY DEPARTMENT: Certify that the product fulfills the order specifications.

Fecha/Date: 24/04/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2008
CERTIFICADO

www.tuv.com
ID: 1100-200721

6P

7



CERTIFICATE OF CONFORMANCE

AMERICAN BAR PRODUCTS
 3600 Michigan Ave, Unit 1
 East Chicago, IN
 46312
 p (219) 957-0500 - f (219) 957-6345

PRODUCT DATA

TAG NO.	70918
PO #:	b 97699
HEAT:	W26482
GAUGE	0.25
WIDTH	1.500
LENGTH	140-89
WEIGHT	1,590
PART # / IAC#:	v-731371
GRADE:	C-1018 CF FLAT BAR

MILL DATA

HEAT:	W26482
MILL COIL #:	K7774831
MELT/ROLL MILL:	US Steel
GRAIN SIZE PRACTICE:	ALUMINUM KILLED
REDUCTION:	40 : 1
PO TO MILL:	42461
WORK ORDER #:	126974
SERIAL NO:	12357622
CUSTOMER PO#:	225889
Melt & Manufacture	USA
OTHER PRODUCT DATA:	

C-1018 COLD FINISHED FLAT BAR

MEETS PROPERTIES OF ASTM A29

MEETS PROPERTIES OF ASTM A108-13

GRAIN: ASTM E112, FINE GRAIN: 8/9, 128 GRAIN/IN² AT 100X MAGNIFICATION
 REDUCTION RATIO 20/1 MIN. STRAND CASTING, NO WELDING OR WELD REPAIR

WE HEREBY CERTIFY THE ABOVE FIGURES ARE ACCURATELY STATED

THE ABOVE FIGURES ARE TRACEABLE IN OUR RECORDS BACK TO THE PRODUCER AND/OR
 TO AN ACCREDITED TEST LABORATORY, ALL PHYSICALS MINIMUM

WE HEREBY CERTIFY THAT THIS PRODUCT DOES NOT CONTAIN LEAD, MERCURY, CADMIUM,
 HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS (PBD), POLYBROMINATED DIPHENYL ETHERS (PBDE)

HEAT ANALYSIS IS FROM THE PACKING LIST RECEIVED FROM OUR RAW MATERIAL SU

OFARS COMPLIANT

PRODUCED IN USA

3

SHIPPING DATA

BILL/LADING #:	34348
B/L DATE:	11-Jan-17

Production data

OPERATOR	ricky sanders
DATE	11-Jan-17
MACHINE	LINE 3

CHEMISTRY

C	0.1900
Mn	0.7800
P	0.0060
S	0.0040
Cu	0.0100
Ni	0.0100
Cr	0.0400
Mo	0.0080
V	0.0010
Al	0.0340
Cb	na
N	0.0070
Si	0.0080

QUALITY CONTROL

GD GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
551 McGRILL ROAD
JACKSON, MICHIGAN 49201

SP#8

CERTIFIED MATERIAL TEST REPORT

ITEM NUMBER	1012462/4140EFVD	ITEM NUMBER	M5573	DATE	11/05/13
142324		Detailed Cast			

ITEM NUMBER	QUANTITY	ORDERED		SPECIFICATION	TESTS PERFORMED
		4140	0 3/4" RND		
ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07					

CHEMICAL ANALYSIS

	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	Sn	Al
V	0.40	0.85	0.010	0.024	0.25	0.12	0.96	0.18	0.17	0.008	0.030
Nb	0.002	0.002									

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDENABILITY

SPECIFICATION ASTM A255/A304

THEORETICAL
 J1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 18 20 22 24 26 28 30 32 34
 56 56 56 56 56 54 53 52 50 48 46 44 43 42 40 38 36

DI CALCULATION

5.07

REDUCTION RATIO

RATIO = 81.5 TO 1.0

SPECIFICATION ITEM 1012462

PAGE 1
 We certify that these data are correct and in compliance with specified requirements.

Wendy J. Craig
 Gerdau Monroe
 3000 East Front Street
 Monroe, MI 48161

QUALITY ASSURANCE ENGINEER/TESTER
 CONTINUED ON PAGE 2

CERTIFIED MATERIAL TEST REPORT

CUSTOMER PART NUMBER	Customer Part Number	Part Number	DATE ISSUED
142324	1012462/41140EFVD	MS2573	283416 101 11/05/13

Danielli Castt.

ORDERED	
4140	0 <i>3/4"</i> RND
	20' <i>Long</i>

ITEM 1012462 REV 1 DTD 03/05/12; A29/A29M-12; A322-07

RESIDUAL MAX SPECIFICATION ITEM 1012462

P+S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 1012462

P+S = 0.0340

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422

ASTM E381 MACRO ETCH SATISFACTORY: S1/R1/C1; MEETS SAE J422
 55/05 RATING (WORST FIELD); MANUFACTURED IN THE U.S.A. BY THE ELECTRIC
 ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
 BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
 TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT
 TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
 GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
 PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2
We certify that these data are correct and in compliance with specified requirements.

Wendy J. Craig
 Wendy J. Craig
 Quality Assurance Representative
 Gerdau Monroe
 3000 East Front Street
 Monroe, MI 48161

JOB MATERIAL CERTIFICATION																													
<p>Vulcan Threaded Products 10 Circuit Creek Trail Pelham, AL 35174 Tel (205) 820-5100 Fax (205) 820-5150</p> <p>THREADED PRODUCTS, INC.</p>			<p>Certified Data: 12/7/13</p> <p>Customer Part No: 1012485-001 Customer PO No: 143438-7537313 Order No: 201403 Note: WUD 75373 A</p>																										
<p>Job No: 344313 Containers: S7521276 S7525296</p>			<p>Job Information</p> <p>Shipped Qty: 16442 lbs Line No: 1</p>																										
<p>Part No: HRB 4140-750x240 Q&T ES Part Group: H1 TOLL Piece Weight: 30.69</p>			<p>Part Information</p> <p>Name: Hot Roll Bars Alloy Type: 4100 Alloy - Temp: 4140</p>																										
Type Heat Treat	Specification Customer Specification	Applicable Specifications	Rev 2012a	Amend	Option																								
<p>Test Results</p> <p>See following pages for tests</p> <p>Certified Chemical Analysis</p> <table border="1"> <tr> <td>Heat No.: 1200-1211</td> <td>Chem. C</td> <td>Wt. %</td> <td>Cr</td> <td>Mo</td> <td>N</td> <td>Si</td> <td>Mn</td> <td>Al</td> <td>Ni</td> <td>Fe</td> <td>Others</td> </tr> <tr> <td>USA</td> <td>0.02</td> <td>0.02</td> <td>1.15</td> <td>0.15</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> <td>0.02</td> </tr> </table> <p>Holes</p> <p>Material was manufactured, tested and inspected in accordance with Vulcan Threaded Products Inc. Quality Assurance Program and Material Rev A, dated 8/23/11. Purchased material is Quenched and Tempered - Stress Free. No weld repair performed on the material. No Mercury used in the production of this material. Headed and Manufactured in the USA</p> <p>Induction Heat Treated</p> <p>Average Gauge Reading <15</p> <p>The microstructure consisted of 100% tempered martensite from the surface to the center.</p> <p>Austempering temp. >1700 degrees F.</p> <p>Test specimen met the ASTM A370-12a specifications</p>						Heat No.: 1200-1211	Chem. C	Wt. %	Cr	Mo	N	Si	Mn	Al	Ni	Fe	Others	USA	0.02	0.02	1.15	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Heat No.: 1200-1211	Chem. C	Wt. %	Cr	Mo	N	Si	Mn	Al	Ni	Fe	Others																		
USA	0.02	0.02	1.15	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.02																		

Per Order 12/7/13 8:44 AM UTC down Page 1 of 2

Cert 377069

JOB MATERIAL CERTIFICATION										
Vulcan Threaded Products					10 Cross Creek Trail Pleasant, AL 35124 Tel (205) 820-8100 Fax (205) 820-5150					
THREADED PRODUCTS, INC.					Certified Date: 12/7/13					
Job No: 344313		Container: S7521276 S7525206		Job Information						
Test Results										
Test No. 23754 Test: Quench & Temper (Physicals (Lab))										
Description	Yarn Type	Wire %	Drawdown	Extraction Rate (%)	POA	Melamine	Harmless (HRC)	Harmless (HRC)	Center Hardness (HRC)	
Quench & Temper	143,200	120,700	17.4	40	63	31	31	30	30	
Physicals Results										
Test No. 23757 Test: Quench & Temper (Information (Lab))										
Description	Tempering Temp (F)	Run Speed (f/min)	Quench Temp (F)	Run Speed (f/min)	Quench Water Temp (F)	Run Speed (f/min)	Quench Water Temp (F)	Run Speed (f/min)	Note	
Quench & Temper Preparation Results	1314	43.50	815	43.50	815	43.50	815	43.50		
<i>Dave Christabel</i> Dave Christabel, David - Supervisor Date: 12/7/13 Page Online 12/7/13 9:44 AM voc:600m Page 2 of 2										

Steel Bar Company Inspection Certificate 1626286

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
	207240	06-Mar-2017	BBC0205	11144 rev 003	V016242	34 HR RD 414Q/Q2MM 20t2in SBO OTSF FG MST

All bundles listed below were produced using steel from Heat MS2573 issued by GERDAU-MORROE and were completed from Eaton Steel Job 006632.

Description	Value	Units	Description	Value	Units
Chemistry			Heat Treating		
C Carbon	0.40000	WT%	TEMPER TEMP F	Temper Temp in Fahrenheit	500 - 2500 DEGF
Mn Manganese	0.05000	WT%	AUSTENITE TEMP F	Austenite Temp in Fahrenheit	1600 - 1700 DEGF
P Phosphorus	0.01000	WT%	SR TEMP F	Stress Relief Temp in Fahrenheit	500 - 2300 DEGF
S Sulfur	0.02400	WT%	MAGNETISM-HIT	Magnetism in Gauss	0 - 20 GN
Si Silicon	0.25000	WT%	TIME AT TEMP	Time at Temperature	Report
Ni Nickel	0.12000	WT%	QUENCH MEDIA	Quench Media Requirements	P&O
Cr Chromium	0.36000	WT%	STRESS FRES	Cert stress free	CERTIFIED
Mo Molybdenum	0.18000	WT%	HT4140-42QT	Quench & Temper	CONFORMS
Al Aluminum	0.03000	WT%	WELD PROCESSING	Description	Value
Cu Copper	0.17000	WT%	WELD COUNTRY	Melted in Country	USA
V Vanadium	0.00200	WT%	ROLLED COUNTRY	Rolled in Country	USA
CB Columbium	0.00000	WT%	RED RATIO	Reduction Ratio	81.50 R20
N Nitrogen	0.00000	WT%	ASTM Standard	Description	Value
P+S Element Sum Limit	0.03400	WT%	Grade B7	Grade B7	CONFORMS
D1 Ideal Diameter	5.07000	IN	ASTMA BC Tensile and Yield properties	ASTMA BC Tensile and Yield properties	CONFORMS
Cleanliness			STRUCTURE	Description	Value
HACRO ETCH			PERCENT TM	Percent Tempered Martensite	80 - 100 PCT
Macro Etch results			MICROSTRUCTURE	Reported Microstructure	TM
Geometry			Tag Number	Qty	Length
Diameter			022-1921471	3305 LBS	20ft
Joining					
J1	17/16 inch from Quenched End	IN			
J2	27/16 inch from Quenched End	IN			
J3	37/16 inch from Quenched End	IN			
J4	47/16 inch from Quenched End	IN			
J5	57/16 inch from Quenched End	IN			
J6	67/16 inch from Quenched End	IN			
J7	77/16 inch from Quenched End	IN			
J8	87/16 inch from Quenched End	IN			
J9	97/16 inch from Quenched End	IN			
J10	107/16 inch from Quenched End	IN			
J11	117/16 inch from Quenched End	IN			
J12	127/16 inch from Quenched End	IN			
J14	147/16 inch from Quenched End	IN			
J16	167/16 inch from Quenched End	IN			
J18	187/16 inch from Quenched End	IN			
J20	207/16 inch from Quenched End	IN			
J22	227/16 inch from Quenched End	IN			
J24	247/16 inch from Quenched End	IN			
J26	287/16 inch from Quenched End	IN			
J28	327/16 inch from Quenched End	IN			
Mechanical			Value	Units	
TENSILE PSI			PSI		
YIELD PSI			PSI		
ELONGATION			PCF		
REDUCTION			PCF		
BRINELL SURF			BRINELL SURFACE		

Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steel's Quality Manual OM-Q0001 / Rev 3 / 2/2013.
 We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.
 Created on 06-Mar-2017
 Thomas Sanders Corporate Metallurgist

4936 48603 R4140-2H-20

TRA-1567
#9

CERTIFICATE OF TEST CERTIFICAT D'ESAIIS

Page 01 of 02

Certification Date
9-DEC-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00001567

PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
S687318

SOLD TO:	ACIER OUELLETTE INC	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:		EXPÉDIÉ À:	
	22 BOULEVARD J-F KENNEDY ST JEROME QC J7Y 4B6		22 BOULEVARD J F KENNEDY SAINT JEROME QC J7Y 4

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2 RD X 20' R/L Line Total: 470 LB
HEAT: M56776 ✓ ITEM: 506433

Specifications:
ASTM A193 GR B7 14 ASTM A434 GR BC 06 ASME SA193 GR B7
ASTM A 322 13

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.42	0.89	0.011	0.033	0.26	0.15	0.90	0.18
CU	SN	AL	V	NB	N		
0.24	0.008	0.024	0.003	0.003	1.40		

RCPT: R966216

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	132.0	144.0	23.0	57.0	279

IDEAL DIAMETER : 5.34 IN GRAIN SIZE :5 - 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrivées du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Matériel did not come in contact with mercury while in our possession /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST

CERTIFICAT D'ESAIIS

Page 02 of 02

Certification Date
9-DEC-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

AC00001567

PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
S687318

SOLD TO:	ACIER OUELLETTE INC	SHIP TO:	ACIER OUELLETTE INC.
VENDU À:		EXPÉDIÉ À:	
	22 BOULEVARD J-F KENNEDY ST JEROME QC J7Y 4B6		22 BOULEVARD J F KENNEDY SAINT JEROME QC J7Y 4

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
2 RD X 20' R/L Line Total: 470 LB
HEAT: M56776 ITEM: 506433

VACUUM DEGASSED MATERIAL IS FREE FROM MERCURY CONTAMINATION
THERMAL TREATMENT: OK
TREATMENT TEMP F TIME(MIN) MEDIA
AUST 1625 2.10
QUENCH 0 WATER
TEMPER 1400 2.1
QUENCHED @ 100 DEG F FOR 2.5 MIN
MACRO: OK
MICRO1: OK

COMMENTS

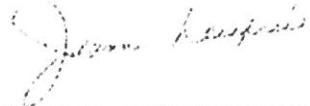
red ratio 11.5 to 1.0
melted and mfg in the USA

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essai du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

10

MILL TEST

Ari Bej

SHIP TO ACIER OUELETTE		CERT CODE: 1	DIE NUMBER S 2222	DATE OF SHIPMENT Nov/03/2016	ORDER NO. 198958 - 1	MANIFEST NO. 359787
SO DESCRIPTION 1" X 3/8" FLAT BAR		CUSTOMER PO 101434	ALLOY 6061 ✓ TEMPER T6	SALESMAN HOUSE ACCOUNTS	MADE IN CANADA	
		CUSTOMER PART NUMBER DT022222	PART DESCRIPTION 1" X 3/8" FLAT BAR ✓	CERTIFICATION MILL TEST ASTM B221-14		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Oct/27/2016	43.50	39.30	18.40	88.2, 88.5, 87.9	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	Y	B	Zr	Bi	Pb	Sn	Si	Co	Al	Other
384191	A.11	6061	0.6	0.18	0.2	0.03	0.86	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	

DAS
14
9-89
7/09/13

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

ouvelle HC #11

FAL 12/12

U6185

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTÉE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 6050261

bon de commande / Purchase order # : OU-46056

de matrice / Die # : MS 9442 Description : 1 1/2"x 1/2" *FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 68674-2

Coulée / Cast # : 66789

Dureté Rockwell E / Min. requis / Max. permis /
Rockwell E hardness : 95 HRE Min. required : 88 HRE Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Tl
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	...	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2016-08-01

DMS
14
9-89
12/09/13

Gilles Pelletier
Technicien de la qualité
Quality technician

Service Center Metals

5850 Quality Way
Prince George, VA 23875



Can Do.

**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**

2P
#12



Made In
the U.S.A.

4

ITEM

OUR ORDER NUMBER

925726

CERTIFICATION	
ASTM-E221-14 Stencil/Cont	
SPECIFICATION	AMS-QQA-20018 Rev-A

MANIFEST NUMBER	DIE NUMBER	DATE OF SHIPMENT
338176	MIRB0479	7/20/2017
CUSTOMER PO	ALLOY/TEMPER	SALESPERSON
C74707	6061-T6511	D.Schroeder (Canada)
CUSTOMER PART NUMBER	DESCRIPTION	
1,140 lbs	16 pcs	MRB0479
Quantity Certified	MQRB 1.000x5,000	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

Mechanical Properties	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
Tests	Lot No.	min	max	min
3	R 391404, R 391406, 201708529	50.10	50.90	45.20
				46.50
				15.60
				17.00
				max
				17.00

17/09/12

DAS
14
9-89

Print Date: 7/20/2017

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 3/2/16

Service Center Metals

5850 Quality Way
Prince George, VA 23875



Can Do.

**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**



OUR ORDER NUMBER	925726	ITEM	4
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Can Do.	MANIFEST NUMBER		DIE NUMBER	DATE OF SHIPMENT	CERTIFICATION
	CUSTOMER PO	ALLOY/T EMPER			
	C74707	6061-T6511	D.Schroeder (Canada)	7/20/2017	ASTM-B221-14 StencilCont
Quantity Certified	1,140 lbs	16 pcs	MRB0479	MQRB 1.000x5.000	SPECIFICATION AMS-QQA-2009B-Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

17/09/13

DAS
14
9-39

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Each	Total	Melt Source:
001J170406Y	201708529	6061	0.76	0.40	0.33	0.10	0.92	0.09	0.05	0.04	97.32	0.05	0.15	United States of America	
001J170524A	201708529	6061	0.74	0.37	0.33	0.11	0.87	0.11	0.06	0.03	97.38	0.05	0.15	United States of America	
05141704	201708529	6061	0.74	0.40	0.33	0.10	0.92	0.08	0.07	0.02	97.34	0.05	0.15	United States of America	
05171701	201708529	6061	0.76	0.36	0.30	0.11	0.86	0.09	0.07	0.03	97.42	0.05	0.15	United States of America	

SCM is ISO 9001-2015 certified

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9-2-16

Print Date: 7/20/2017

2457

4A1-1143-12

ACIER OUELLETTE INC P.O. - AC7730 S.O. - 394920

48392

#13

Material Test ReportManifest: 704227Ticket:
1658808

Our Order: 876180-1 Cust P.O.: 787365
 Die: ES04036 Part: 5131-8954
 Alloy Temper: 6061 T6511 Description: 1.250 x 3,000 RECT. BAR
 Print Date: 12/12/16

CastNum	Chemical Composition									Maximum
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	
34827	0.57	0.24	0.19	0.08	0.85	0.07	0.02	0.01	0.05	0.15

Mechanical Properties						
Strength ksi						
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
66813	34827	A11	12/6/16	48.37	44.45	17.5

Applicable Specifications: ASTM B221-14 AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

DAS
14
9-89/17/09/13

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Eric Hotte - Tensile Testing

Authorized:

Evan Eng, Quality Assurance Manager

#14

Certificate of Mill Test Results

LES ACIERS OUELLETTE INC.
BARRE RONDE ALUMINIUM 6061-T6511
5.00" DIA X 144.0000"
PART NO.

PO/tel OUI-77076

Nous certifions que le document reproduit ici est
une copie conforme du rapport fourni par le
fournisseur du matériel ou les données résultent

SH. VIM-178 IS2-001

9May16

Pg. 1/1



KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
VIM-635658-3		R37/STK		KAISERSELECT PRECISON ROD 5.000 +/- .017			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE	KAISER LOT NUMBER:	ALLOY:	TEMPER:		
6007370	003	04/19/2016	Z00020290	6061	T6511B		
WEIGHT SHIPPED	QUANTITY:	BL NUMBER:	DIAM/DIA/THIKNS:	WIDTH:	LENGTH:		
1108.000 LB	4.000 PCS	615429			12.000 FT		
SHIP TO:	SOLD TO:						
THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA	THYSSENKRUPP CANADA 4700 BOIS FRANC ST LAURENT, PQ H4S 1A7 CANADA						

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
ZG0020290	0001	C001	51.8	47.6	15.6	RE	94	N/A
ZC0020290	0001	C002	51.3	47.2	16.0	RE	91	N/A
ZS0020290	0002	C001	56.2	54.7	15.0	RE	94	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.30
106110	.72	.29	.26	.11	.93	.10	.19	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNSP A95061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINTIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 16.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been
inspected and tested and found in conformance with applicable specifications forming a part of the
description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on
Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

14/17/09/13

Plant Serial: 00227385

Kaiser Order Number: 6007370

Line Item: 003

#15

TR+ 904
5144

47345

Test de dureté Rockwell

Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7010442

bon de commande / Purchase order # : OU-47042

de matrice / Die # : MS 16001

Description : 2.25" DIA. ROD

Alliage & trempage / Alloy & temper : 6061 T6

Longueur / Length : 6097 mm

Contrôle / Control # : 83103-1

Coulée / Cast # : 68252

Dureté Rockwell E /

Min. requis /

Max. permis /

Rockwell E hardness : 96 HRE

Min. required : 88 HRE

Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
6063	0.20 - 0.60	0.35 Max	0.10 Max	0.10 Max	0.45 - 0.90	0.10 Max	0.10 Max	0.10 Max
6005	0.60 - 0.90	0.35 Max	0.10 Max	0.10 Max	0.40 - 0.60	0.10 Max	0.10 Max	0.10 Max
6005A	0.66 - 0.74	0.14 - 0.28	0.08 - 0.16	0.18 - 0.26	0.46 - 0.54	0.03 Max	0.05 Max	0.05 Max
6061	0.40 - 0.80	0.70 Max	0.15 - 0.40	0.15 Max	0.80 - 1.20	0.04 - 0.35	0.25 Max	0.15 Max
6351	0.7 - 1.3	0.5 Max	0.10 Max	0.40 - 0.80	0.40 - 0.80	--	0.20 Max	0.20 Max

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2017-02-08

DAS
14/7/09/B
S-89

Gilles Pelletier
Technicien de la qualité
Quality technician

ACIER OULETTE DIV. VALLEYFIELD
100, rue Viger N°303
PARK RIDGE, ILLINOIS 60066
FAX: 708/224-0000

PO#Ref: AC600099130

Sous certains que le document rep^{re}sente une copie conforme du rapport d'essai de fournisseur du mat^{eriel} ou les documents associ



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

Customer: 007205 001

Certificate: 300262 4

METALLURGICAL TEST REPORT

0870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Your Order: VIN641730

NAS Order: IN 0248251 02

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Threaded, Cold Finished
NAS 30300, ASTM A582/12 EN 10204 3.1, ASTM A486/15
AMS 5640V TYPE 1, QQ-S-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/ REQUIREMENTS OF DVAR 252-225-7009 EU DIRECTIVE
2011/65/EU/ROHS. EAP+AD+CC. NO WELD REPAIR. RELENT AND MFG
IN USA. FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BR6178 7		1.5000		880	164.00	4	1	

CHEMICAL ANALYSIS CM(Country of Melt)

NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	Chemical Analysis per ASTM A751/14a
33338	US	.0329	.1085	17.0530	.3225	1.8665	.3105	.0466	8.5265	.0275	
		S %	SI %								
		.3145	.4000								

MECHANICAL PROPERTIES

Product Id	1	4	c	i	HB	No.	.2YS	UTS	KSI	RA %	Elong % 4D
BR6178 7	R	L	152.0		44.00		87.00	58.00		46.00	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

KRISTEN LARKE
6/06/2017

PD 9031 JV

CERTIFICATE OF TEST CERTIFICAT D'ESAIIS

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

ROSS
PART NUMBER/NUMÉRO DE PIÈCE

Page 01 of 01

Certification Date
9-MAR-2007

Invoice Number
T232578

Description: 1018 CF BAR ASTM A108
2-1/2 X 6 FLATS 6' 0" (72.0") REMNANT Line Total: 306 LB
HEAT: 207H175 DAS ITEM: 503180

Specifications: 9-89 ASTM A29 04
ASTM A108 03

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.16	0.67	0.01	0.02	0.24	0.08	0.07	0.017
CU	AL	V					
0.23	0.045	0.001					

RCPT: R692775
MILL : NIAGARA LASALLE CORPORATION COUNTRY OF ORIGIN : USA

GRAIN SIZE : 5 - 8

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

GRAIN FINE (5 8)
SOURCE/METLED ISG STEELTON (USA)
CAST BLOOM
RED. RATIO 22.5:1

*Mercury 1/10
2026 "Colored
9 Mar 2007*

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du fabricant après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOSÉE DUBE

Josée Dubé
MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

2/2 X 6"

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M1018 R.625
DATE 17/09/12

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D Yes
QUANTITY RECEIVED 18.9
QUANTITY INSPECTED 18.9
QUANTITY REJECTED

THICKNESS ORDERED .625
THICKNESS RECEIVED .625
SHEET SIZE ORDERED
SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y N	
CORRECT FINISH	Y N	
CORROSION	Y N	
CORRECT GRAIN DIRECTION	Y N	
CORRECT MATERIAL PER M-DRAWING	Y N	ASTM A108
CORRECT THICKNESS	Y N	
PHOTO REQUIRED	Y N	
CORRECT REF# TO LINK CERT	Y N	HEAT # 139624
CORRECT MATERIAL IDENTIFICATION	Y N	M1018 R.625
CORRECT M# ON THE MATERIAL	Y N	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>mk</u>	SIGNED OFF BY: _____
DATE: <u>17/09/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION: MIL-S-7097 CR ASTM A108

PART NUMBER: M1018-R(DDD) WHERE D.DDD = DIAMETER IN INCHES
DIA.

EG: 7/8" ROUND BAR = M1018-R0.875

PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1 5/8" INCL.	+0.000/-0.002
OVER 1 5/8" TO 2 5/8" INCL.	+0.000/-0.003
OVER 2 5/8" TO 4 0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

TOLENCES:

PLEASE
2012-09-24
M

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES	CP	12.08.05
A	NEW ISSUE	DS	01.06.12
REV.	DESCRIPTION	BY	DATE
	DART AEROSPACE LTD		
DESIGN	DS		
DRAWN	CP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	✓	DRAWING NO. M1018-R	REV. B SHEET 1 OF 1
MFG. APPR.		TITLE 1018-1025 ROUND BAR	SCALE NTS
APPROVED			
DE APPR.			
DATE	12.09.05		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL Y303 R1.500
DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 12
QUANTITY INSPECTED 12
QUANTITY REJECTED

THICKNESS ORDERED 1.500
THICKNESS RECEIVED 1.500
SHEET SIZE ORDERED
SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF# TO LINK CERT	Y <input checked="" type="radio"/>	
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	BAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9.89	SIGNED OFF BY _____
DATE:	17/09/13	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

ASTM A582

M303R DDD
DIA.

WHERE "D,DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750



SPECIFICATION:
PART NUMBER:

R 1.500

RELEASED
R 2010-02-02
JW

B		REFORMAT DWG. ADD SPECS (ZN D8-1), REF FOR 08-020A		CP 10.01.05	
A	REV.	NEW ISSUE	DESCRIPTION	DS 01.12.20	BY DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWN	JW	✓	DRAWING NO. M303R	REV. B SHEET 1 OF 1	NTS
CHECKED	✓	✓	TITLE 303 ROUND BAR	SCALE	SCALE
MFG. APPR.	✓	✓	DE APPR.	DATE 10.01.05	DATE

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303 R.750
 DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D YES
 QUANTITY RECEIVED .750
 QUANTITY INSPECTED .750
 QUANTITY REJECTED

THICKNESS ORDERED .750
 THICKNESS RECEIVED .750
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> N	ASTM A582
CORRECT THICKNESS	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> N	HEAT # W4B3
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> N	M303 R.750
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> N	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
DAS 14 9-89 INSPECTED BY: _____		SIGNED OFF BY: _____
DATE: <u>17/09/13</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304 RD.375
DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 12.3
QUANTITY INSPECTED 12.3
QUANTITY REJECTED

THICKNESS ORDERED .375
THICKNESS RECEIVED .375
SHEET SIZE ORDERED
SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input type="radio"/> N	
CORROSION	Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input type="radio"/> N	ASTM A276
CORRECT THICKNESS	Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input type="radio"/> N	
CORRECT REF# TO LINK CERT	Y <input type="radio"/> N	HEAT # CH-3840
CORRECT MATERIAL IDENTIFICATION	Y <input type="radio"/> N	M304 RD.375
CORRECT M# ON THE MATERIAL	Y <input type="radio"/> N	138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DURD	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9.69	SIGNED OFF BY _____
DATE:	17/09/13	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION:
ASTM A276
PART NUMBER:
M304R[D,DDD]
DIA.

WHERE "D,DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M304R0.750

DAS
14
9-69
375

RELEASED
[Signature]

B	REFORMAT DWG ADD SPECS (Zn D8-1), REF PAR 08-020A	CP 09.07.15
A	NEW ISSUE	AJS 08.03.03
REV.	DESCRIPTION	BY DATE
DESIGN	<i>AJS</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN		DRAWING NO. <i>M304R</i>
CHECKED		REV. B
MFG. APPR.		SHEET 1 OF 1
APPROVED		SCALE
DE APPR.		NTS
DATE	09.07.15	304/316 ROUND BAR

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL H404/T6 B.375X1.00 PO / BATCH NO. 37671/138470
 DATE 17/09/13

MATERIAL CERT REC'D	<u>yes</u>	THICKNESS ORDERED	<u>.375</u>
QUANTITY RECEIVED	<u>20</u>	THICKNESS RECEIVED	<u>.375</u>
QUANTITY INSPECTED	<u>20</u>	SHEET SIZE ORDERED	
QUANTITY REJECTED		SHEET SIZE RECEIVED	

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> N	ASTM B221
CORRECT THICKNESS	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> N	HEAT# 3B4191
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> N	
CORRECT V# ON THE MATERIAL	<input checked="" type="radio"/> N	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DURD

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-89	SIGNED OFF BY _____
DATE:	17/09/13	DATE.

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4/28/4115/4116)
OR QQ-A-2008 (OR AMS-QQ-A-2008 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

△

PART NUMBER:

M6061T6B	T.TTT	X	WW.WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES

"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

375X1.00
Dirk

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4/28/4115/4116)
OR QQ-A-2008 (OR AMS-QQ-A-2008 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

△

PART NUMBER:

M6061T6B	T.TTT	X	WW.WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES

"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-03-03
Dirk

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B21/B22/T6N D7-1]	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN	<i>AS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AS</i>	DRAWING NO. M6061T6B	REV. B
MFG. APPR.		TITLE	SHEET 1 OF 1
APPROVED		6061-T6 BAR	SCALE
DE APPR.		NTS	NOT TO SCALE
DATE	09.07.13		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL H60L/T6B,500X1.50
 DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 20'
 QUANTITY INSPECTED 20'
 QUANTITY REJECTED _____

THICKNESS ORDERED .500
 THICKNESS RECEIVED .500
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	ASTM B221
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
DAS			
INSPECTED BY:	14 949	SIGNED OFF BY _____	
DATE:	17/09/13	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T652 ALUMINUM BAR

SPECIFICATION:
△
SPECIFICATION: QQ-A-2258 OR AMS-QQ-A-2258 (OR AMS 417/4128/4115/4116)
OR QQA-2008 OR AMS-QQ-A-2008 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B| T.TTT | X | WWW.WWW |
THICK | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B:1.000X12.000

500X1.50
dk

RELEASED
R 2009-05-02
MW

B	REMOVE QQ-A-22511 OPTION, REFORMAT NOTES, ADD ASTM B211/B221(ZN D7-1)			CP	09.07.13
A	NEW ISSUE	DS	DESCRIPTION	BY	DATE
REV.					
DESIGN	DS	DS	DART AEROSPACE LTD		
DRAWN	<i>AS</i>		HAWKESBURY, ONTARIO, CANADA		
CHECKED			DRAWING NO.	REV. B	
MFG. APPR.			M6061T6B	SHEET 1 OF 1	
APPROVED			TITLE	SCALE	
DE APPR.			6061-T6 BAR	NTS	
DATE	09.07.13				

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PRINTED ON 05/02/2009

MATERIAL RECEIPT INSPECTION FORM

MATERIAL H6061TL BLDOX5.00
DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 12
QUANTITY INSPECTED 12
QUANTITY REJECTED

THICKNESS ORDERED 1.00
THICKNESS RECEIVED 1.00
SHEET SIZE ORDERED
SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N	ASTM B221
CORRECT THICKNESS	Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF# TO LINK CERT	Y <input checked="" type="radio"/> N	HEAT# 201708529
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS <u>14</u> INSPECTED BY: _____	SIGNED OFF BY: _____
9-89 DATE: <u>17/09/13</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:



QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)

OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)

OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B	T.TTT	X	WWW	WWW
	THICK		WIDTH	

WHERE "T.TTT" = THICKNESS IN INCHES

"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B:1.000X12.000

1.00 X 5.00

RELEASED
R 2009-05-05

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B21/B221 (ZN 07/1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV.		DESCRIPTION	BY DATE
DESIGN	DS	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		M6061T6B	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		6061-T6 BAR	NTS
DATE	09.07.13		

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL

H606/T6 B1.250X3.00

PO/BATCH NO

37671/138470

DATE

17/09/13

MATERIAL CERT REC'D

yes

THICKNESS ORDERED

1.25

QUANTITY RECEIVED

12'

THICKNESS RECEIVED

1.25

QUANTITY INSPECTED

12'

SHEET SIZE ORDERED

QUANTITY REJECTED

SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	ASTM B221
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF# TO LINK CERT	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	
CORRECT # ON THE MATERIAL	Y <input checked="" type="radio"/>	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DURCOMETER READING	FRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9.89	SIGNED OFF BY _____
DATE:	17/09/13	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 1174/4128/4115/4116)
OR QQA-200/8 OR AMS-QQA-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

△B

SPECIFICATION:

△C

PART NUMBER:

M6061T6B	T.TTT	X	WWW.WWW
	THICK		WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES

"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

DAS
14
9-89

1.25 X 3.00

RELEASED
R 2009-05-05
JW

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221(ZN D7-1)			CP	09.07.13
A	NEW ISSUE			DS	01.06.08
REV.				BY	DATE
DESIGN	DS	DS	DART AEROSPACE LTD		
DRAWN	<i>AJS</i>	<i>AJS</i>	HANKEYSBURY, ONTARIO, CANADA		
CHECKED			DRAWING NO.		REV. B
MFG. APPR.			M6061T6B		SHEET 1 OF 1
APPROVED			TITLE		SCALE
DE APPR.			6061-T6 BAR		NTS
DATE	09.07.13				

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NO REPAIRING

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606T6 R.5.00
 DATE 17/09/13

PO / BATCH NO 37671/138470

WATER AL CERT REC'D yes
 QUANTITY RECEIVED 3
 QUANTITY INSPECTED 3
 QUANTITY REJECTED 0

THICKNESS ORDERED 5.00
 THICKNESS RECEIVED 5.00
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check V/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<u>ASTM B221</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<u>HEAT# 200020290</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT V# ON THE MATERIAL	<input checked="" type="checkbox"/>	<u>M138470</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	DAS 14 9.89	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY	
DATE:	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION:
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4-128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES
EC 5/8" ROUND BAR - M5064 TENS 625

PIRCHASE MATERIAL : 6061-T6/T651/T6510/T6511/T652 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4-128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

RELEASED
2009-09-09
[Signature]

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN DB-1), REF PAR 08-020A	CP	09/07/13
A	NEW ISSUE	DS	01/06/08
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN		DRAWING NO.	REV. B
CHECKED		M6061-T6R	SHEET 1 OF 1
MFG. APPR.		TITLE	SCALE
APPROVED		6061-T6 ROUND BAR	NTS
DE APPR.			
DATE	09.07.13		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061T4 R2.250
 DATE 17/09/13

PO / BATCH NO 37471/138470

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 2
 QUANTITY INSPECTED 2
 QUANTITY REJECTED _____

THICKNESS ORDERED 2.250
 THICKNESS RECEIVED 2.250
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	ASTM B221
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	HEAT # 68252
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT ID# ON THE MATERIAL	Y <input checked="" type="radio"/>	M138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	N
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DURA	DURD	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-89	SIGNED OFF BY _____
DATE:	17/09/13	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6511/T6510/T6511/T62 ALUMINUM ROUND BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQA-225/8 (OR AMS 4117/4-12B/4115/4116)
OR QQ-A-200/8 OR AMS-QQA-200/8 (OR AMS 4160)

PART NUMBER: M6061T6RD.D.DDD
OR ASTM B211 OR
M6061T6RD.D.DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
50 .50" ROUND BAR = #50541GDR50.50

2.250

RELEASED
R 2009-09-03
[Signature]

B	REFORMAT DWG. ADD B211 & B221 SPEC [ZN DB-1], REF PAR 08-020A	CP	09/07/13
A	NEW ISSUE	DS	01/08/08
REV.	DESCRIPTION	BY	DATE
DESIGN	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN			
CHECKED	DRAWING NO.		REV. B
MFG. APPR.	M6061T6R		SHEET 1 OF 1
APPROVED			SCALE
DE APPR.			NTS
DATE	6061-T6 ROUND BAR		
09.07.13			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M1018 R, 500
 DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 18.9
 QUANTITY INSPECTED 18.9
 QUANTITY REJECTED

THICKNESS ORDERED .500
 THICKNESS RECEIVED .506
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	N
CORRECT THICKNESS	Y <input checked="" type="radio"/>	N
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	N
CORRECT N# ON THE MATERIAL	Y <input checked="" type="radio"/>	N
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	<u>DAS</u> <u>14</u> <u>9/89</u>	SIGNED OFF BY:	
DATE:	<u>17/09/13</u>	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION: MIL-S-7097 OR ASTM A108

PART NUMBER: M1018-R[D,DDD] WHERE D,DDD = DIAMETER IN INCHES

DIA:

EG. 7/8" ROUND BAR = M1018-R0.875

PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1.5" INCL.	+0.000/-0.002
OVER 1.5" TO 2.5" INCL.	+0.000/-0.003
OVER 2.5" TO 4.0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1.5" INCL.	+0.000/-0.002
OVER 1.5" TO 2.5" INCL.	+0.000/-0.003
OVER 2.5" TO 4.0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

PART NUMBER: M1018-R[D,DDD] WHERE D,DDD = DIAMETER IN INCHES

DIA:

EG. 7/8" ROUND BAR = M1018-R0.875

PER ASTM A108 AS FOLLOWS:

SIZE	TOLERANCE
UP TO 1.5" INCL.	+0.000/-0.002
OVER 1.5" TO 2.5" INCL.	+0.000/-0.003
OVER 2.5" TO 4.0" INCL.	+0.000/-0.004
OVER 4.0" TO 6.0" INCL.	+0.000/-0.005
OVER 6.0" TO 8.0" INCL.	+0.000/-0.006

RELEASED
2012-08-24
[Signature]

B	REFORMAT, ADD ASTM A108, ADD TOLERANCES			CP	12.09.05
A	NEW ISSUE	REV.	DS	DS	01.06.12
DESIGN	DS	DESCRIPTION	DART AEROSPACE LTD		
DRAWN	CP	HAWKESBURY, ONTARIO, CANADA			
CHECKED	CP	DRAWING NO.	REV. B		
MFG. APPR.		M1018-R	NTS		
APPROVED		TITLE	SHEET 1 OF 1		
DE APPR.		1018-1025 ROUND BAR	SCALE		
DATE	12.09.05		NTS		

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MADE ACCORDING TO THE SPECIFICATIONS CONTAINED THEREIN.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MRO452094
 DATE: SEP 18 2017

PO / BATCH NO.: 0037671/M138470

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 64 Sq Ft
 QUANTITY INSPECTED: 64 Sq Ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .036
 SHEET SIZE ORDERED: 4x8
 SHEET SIZE RECEIVED: 4x8

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	Y	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM A340
CORRECT THICKNESS	Y	N	
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	# 160629 D02
CORRECT MATERIAL IDENTIFICATION	Y	N	
CORRECT M# ON THE MATERIAL	Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-65</u> <u>SEP 18 2017</u> DATE:	SIGNED OFF BY: DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

D PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS-6524 (316)

5 OR ASSTM A240
OR ASME-SA240
9-89

C FINISH:

	FINISH IDENTIFIER	DART M- NUMBER
UNPOLISHED	No. 1	1P
UNPOLISHED	No. 2D	2D
UNPOLISHED	No. 2B	NONE
POLISHED	No. 3	3P
POLISHED	No. 4	4P
BUFFED	No. 6	6P
BUFFED	No. 7	7P
BUFFED	No. 8	8P

B PART NUMBER:

M304S | T | GA #P
GA

WHERE "T" = GAUGE THICKNESS

WHERE "#P" = FINISH IDENTIFIER

E.G. 16 GAUGE SS SHEET 2B FINISH = M304S16GA
E.G. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

C GAUGE THICKNESS REFERENCE:

GAUGE	NOM. THICK. (IN)	THICKNESS RANGE (IN)
26	0.01875	0.0178 - 0.019
25	0.021875	0.0199 - 0.023
24	0.025	0.024 - 0.026
23	0.028125	0.027 - 0.029
22	0.03125	0.030 - 0.032
21	0.034375	0.033 - 0.035
20	0.0375	0.036 - 0.040
19	0.04375	0.041 - 0.046
18	0.050	0.047 - 0.052
17	0.05625	0.053 - 0.058
16	0.0625	0.059 - 0.065
15	0.0703125	0.066 - 0.072
14	0.078125	0.073 - 0.083
13	0.08375	0.084 - 0.098
12	0.109375	0.099 - 0.114
11	0.125	0.115 - 0.130
10	0.140625	0.131 - 0.145
9	0.15625	0.146 - 0.160
8	0.171875	0.161 - 0.176
7	0.1875	0.176 - 0.194
6	0.2031	0.194 - 0.212
5	0.2188	0.201 - 0.228
4	0.2344	0.225 - 0.243
3	0.2500	0.238 - 0.262
2	0.2656	0.254 - 0.278
1	0.2813	0.269 - 0.293
0	0.3125	0.301 - 0.325

RELEASED

2015 FEB 04

ECN 15-122 CR

D	ADDED GAUGES 0-7.	A/S	15.01.06
C	DEFINED FINISH OPTION (ZINC) AND EXAMPLE OF MATERIAL PAN (WITH FINISH OTHER THAN ZN-BN).	NB	12.08.20
B	REFORMAT DWG. ADD ASTM/ASME SPEC'S (ZN-D8-1), ADD GAUGE REF (CB-1), REF PAR 08-020A	CP	09.06.01
A	NEW ISSUE	DS	01.09.24
REV.	DESCRIPTION	BY	DATE
	DART AEROSPACE LTD		
	HAWKESBURY, ONTARIO, CANADA		
	DRAWING NO.		REV. D
	M304S		SHEET 1 OF 1
	TITLE		SCALE
	304/316 SS SHEET		NTS
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M1018.B.250X1.500
 DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D YES
 QUANTITY RECEIVED 12.200'
 QUANTITY INSPECTED 12.200'
 QUANTITY REJECTED

THICKNESS ORDERED .250
 THICKNESS RECEIVED .245
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	N
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	Acceptable & use for tooling only 11
CORRECT THICKNESS	Y <input checked="" type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF# TO LINK CERT	Y <input checked="" type="radio"/>	HEAT # W26482
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	M1018.B.250X1.500
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	138470
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	DAS 5	SIGNED OFF BY _____	
DATE:	SEP 18 2013	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018B2.5X6000
 DATE: SEP 18 2017

PO / BATCH NO.: P037671/M138470

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 3'
 QUANTITY INSPECTED: 3'
 QUANTITY REJECTED: &

THICKNESS ORDERED: 2.5
 THICKNESS RECEIVED: 2.5
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL PER M-DRAWING	Y <u>N</u>	Acceptable, USE for tooling only. A
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	H# 207H175
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY: _____	<u>5</u> <u>8-89</u>	SIGNED OFF BY: _____
DATE: <u>SEP 18 2017</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M414D HR, 750
 DATE 17/09/13

PO / BATCH NO 37671/138470

MATERIAL CERT REC'D Yes
 QUANTITY RECEIVED 3
 QUANTITY INSPECTED 3
 QUANTITY REJECTED 0

THICKNESS ORDERED .750
 THICKNESS RECEIVED .744
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	
CORROSION	Y <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/>	
CORRECT THICKNESS	Y <input checked="" type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	
CORRECT N# ON THE MATERIAL	Y <input checked="" type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY:	DAS 5 9-89	SIGNED OFF BY _____	
DATE: SEP 18 2011	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE 05.02.21		TITLE 4140 ROUND BAR	:CALE 1:1
A	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AISI 4140H ROUND BAR

PER AISI 4140 OR ASTM A304-02 / -A-434-BC /

-A193-03- GRADE-B7 / -A29-03 / -A322-91 OR

UNS # - G41400

MINIMUM ULTIMATE TENSILE STRENGTH = 180 ksi

MINIMUM YIELD TENSILE STRENGTH = 66 ksi

PART NUMBER: M4140H-R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES
DIA.

E.G. 7/8" ROUND BAR = M4140H-R 0.875

RELEASED
05.03.25 *[Signature]*



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 1 of 8

Order From : VC-CAM002
ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K0
CANADA

1K7
E-MAILED
SEP 05 2017

Contact Name
Vendor Phone 800 667 4248

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer	Chantal Lavoie
Customer POID	
Customer Tax #	10127-2607
Terms	Net 30
Currency	CAD
FOB	FCA – (Free Carrier)

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$234.60

2 M303R0.750 ✓ 303 Round Bar 0.750 ✓ 9/11/2017 12.00 ✓ \$4.43 \$53.16
Yes f 12.2
9/11/2017

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$53.16

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 2 of 8

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

3	M304R0.375	304 ROUND BAR 0.375	9/11/2017	12.00 f	\$1.03	\$12.41
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MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

4	M304S18GA	304/316 .050 Sheet	9/11/2017	64.00 sf	\$5.36	\$342.72
---	-----------	--------------------	-----------	----------	--------	----------

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$12.41

Line Total: \$342.72

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37671

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 3 of 8

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

5	M304S20GA	✓	304/316 .040 Sheet	✓	9/11/2017	64.00	✓	\$3.91	\$250.14
					Yes	sf			
					9/11/2017				

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

2X
SOP 9-11

6	M1018R0.625	✓	M1018R0.625	✓	9/11/2017	20.00	✓	\$1.04	\$20.79
					Yes	f			
					9/11/2017				

MATERIAL: AISI 1018-1025 ROUND BAR AS PER
MIL-S-7097 OR ASTM A108

18.9.

7	M1018R0.500	✓	1018-1025 round bar .500	✓	9/11/2017	20.00	✓	\$0.67	\$13.35
					Yes	f			
					9/11/2017				

MATERIAL: AISI 1018-1025 ROUND BAR AS PER
MIL-S-7097 OR ASTM A108

18.9.
SOP 9-11

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017

PO Print Date 9/5/2017

Page Number 4 of 8

Order From : VC-CAM002
ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

				Line Total:	
8	M1018B0.250x1.500	1010-1025 Steel Bar .250 x 1.500	✓ 9/11/2017 Yes 9/11/2017	12.00 ✓ \$1.86	\$22.33
9	M1018B2.500X6.000	1010-1025 Steel Bar 2.500 x 6.000	✓ 9/11/2017 Yes 9/11/2017	3.00 ✓ f \$165.32	\$495.95
10	M4140HR0.750	4140 round bar .750	✓ 9/11/2017 Yes 9/11/2017	3.00 ✓ f \$4.67	\$14.01

SAW CUT CHARGES INCLUDED IN PRICE
MATERIAL: AISI 4140 H ROUND BAR PER
AISI 4140 OR ASTM A304-02/-A-434-BC/-A193-03 GRADE-B7/-A29-03/-A332-91 OR UNS # G41400

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 5 of 8

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

					Line Total:				
11	M4140HR2.00	✓	M4140HR2.00	✓	9/11/2017 FN Yes 9/11/2017	3.00 f	✓	\$19.50	\$14.01

SAW CUT CHARGES INCLUDED IN PRICE
MATERIAL: AISI 4140 H ROUND BAR PER
AISI 4140 OR ASTM A304-02/A-434-BC/A193-03 GRADE-B7/A29-03/A332-91 OR UNS # G41400

					Line Total:				
12	M6061T6B0.375X01.000	✓	6061T6 BAR .375 x 1.00	✓	9/11/2017 Yes 9/11/2017	20.00 f	✓	\$1.20	\$58.49

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$23.94

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 6 of 8

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Buyer Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Customer POID

10127-2607

Customer Tax #

Net 30

Terms

CAD

Currency

FOB FCA - (Free Carrier)

13	M6061T6B0.500X1.500	✓	6061T6 BAR 0.500 X 1.500	✓	9/11/2017	20.00	✓	\$2.39	\$47.87
					Yes	f			
					9/11/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

14	M6061T6B1.000X5.000	✓	6061T6 BAR 1.000 X 5.000	✓	9/11/2017	12.00	✓	Line Total: \$17.97	\$215.66
					Yes	f			
					9/11/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$215.66

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 7 of 8

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

15	M6061T6B1.250X3.000	6061T6 BAR 1.250 X 3.000	✓	9/11/2017	12.00	✓	\$13.48	\$161.76
				Yes	f			
				9/11/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

16	M6061T6R5.000	6061-T6 Round Bar 5.000"	✓	9/11/2017	3.00	✓	\$71.06	\$213.18
				Yes	f			
				9/11/2017				

SAW CUT CHARGES INCLUDED IN PRICE
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

SPRATHI

Line Total: \$213.18

PO Instructions: QUOTATION SOU0055250

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37671**

Purchase Order Date 9/5/2017
PO Print Date 9/5/2017

Page Number 8 of 8

Order From : VC-CAM002

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Buyer Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

17	M6061T6R2.250	6061-T6 Round Bar 2.250"	9/11/2017	2.00	\$14.36	\$28.72
			Yes	f		
			9/11/2017			

SAW CUT CHARGES INCLUDED IN PRICE

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$28.72

18	71401-45	PROCUREMENT QUALITY CLAUSESQ	9/11/2017	1.00	\$0.00	\$0.00
----	----------	---------------------------------	-----------	------	--------	--------

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

No
9/11/2017

Line Total: \$0.00

PO Total: \$2,209.08

PO Instructions: QUOTATION SOU0055250

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 9/5/2017

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

P10\37671

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056**Date** 2017/08/30**Revision N°** 0**Prices valid until** 2017/09/06**Your Order N°****Processed by** BERNARD**Salesman** FRED**Carrier** OUELLE SDV**Credit Terms** Net 30 Days**Page** 2

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE SCIE 1 1 X 3'		1.00 UN	1.00	5.00			5.00
ROUND 4140 HEAT TREAT 2 RANDOM R4140-2H-V 4937	32.04	3.00 PI_\$CLB	3.00 PI	17.83			53.49
COUPE A LA SCIE SCIE 1 1 X 3'		1.00 UN	1.00	5.00			5.00
FLAT ALU 3/8 X 1 6061-T6 (20) FAL-381-20 2610	9.00	20.00 PI_\$CLB	1.00 UN	23.94			23.94
FLAT ALU 1/2 X 1 1/2 6061-T6 (20) FAL-12112-20 2465	18.00	20.00 PI_\$CLB	1.00 UN	47.87			47.87
FLAT ALU 1/2 X 3 6061-T6 (20) FAL-123-20 2485	36.20	20.00 PI_\$CLB	1.00 UN	96.27			96.27
FLAT ALU 1 X 5 6061-T6 (12) FAL-15-12 2533	70.49	12.00 PI_\$CLB	1.00 UN	215.66			215.66
FLAT ALU 1 1/4 X 3 6061-T6 (12) FAL-1143-12 2457	52.87	12.00 PI_\$CLB	1.00 UN	161.76			161.76
FLAT ALU 2 X 3 6061-T6 (12) FAL-23-12 2559	84.67	12.00 PI_\$CLB	1.00 UN	242.12			242.12
ROUND ALU 5 6061-T6 (12) RAL-5-12 5164	69.12	3.00 PI_\$CLB	0.25 UN	812.72			203.18

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
 HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056

Date 2017/08/30

Revision N° 0

Prices valid until 2017/09/06

Your Order N°

Processed by BERNARD

Salesman FRED

Carrier OUELLE SDV

Credit Terms Net 30 Days

Page 1

Product N° and description	Weight	Qty U/M	Qty U/M	Price	Pcs Nb	Price	Amount
SS303 ROUND BAR 1 1/2" N 1 X 12' R/L 2-3 DAYS	0.00	12.00 PI	12.00 UN	19.55			234.60
ROUND SS 3/4 303 RANDOM RSS-34303-V 5761 1 X 12' R/L	18.02	12.00 PI_\$CLB	12.00 PI	4.43			53.16
ROUND SS 3/8 304 (12R) RSS-38-12 5763 1 X 12' R/L	4.51	12.00 PI_\$CLB	12.00 PI	1.03			12.41
SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8'	134.40	64.00 PI2_\$CLB	2.00 UN	171.36			342.72
SHEET SS 20G SS304-2B (4 X 8) FESS-20G483042B 3430 2 X 4' X 8'	100.48	64.00 PI2_\$CLB	2.00 UN	125.07			250.14
ROUND CR 5/8 1018 (20R) RCR-58-20 5350 1 x 20' r/l	20.80	20.00 PI_\$CLB	20.00 PI	1.04			20.79
ROUND CR 1/2 1018 (20R) RCR-12-20 5266 1 x 20' r/l	13.36	20.00 PI_\$CLB	20.00 PI	0.67			13.35
FLAT CR 1/4 X 1 1/2 1018 (12R) FCR-14112-12 2731 1 x 12' r/l	15.30	12.00 PI_\$CLB	12.00 PI	1.86			22.33
FLAT CR 2 1/2" X 6" N 1 X 3' 2-3 DAYS	0.00	1.00 UN	1.00 UN	495.95			495.95
ROUND 4140 HEAT TREAT 3/4 (20R) R4140-34H-20 4948 + \$ 00 Cage scie	4.51	3.00 PI_\$CLB	3.00 PI	3.00			9.01

préavis en fonction de l'évolution des prix de l'acier sur le marché.
 Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Hâvre
 Salaberry de Valleyfield (Québec) J6S 5L1
 Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0055250

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7**Shipped to**

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N°	CLI0001056
Date	2017/08/30
Revision N°	0
Prices valid until	2017/09/06
Your Order N°	
Processed by	BERNARD
Salesman	FRED
Carrier	OUELLE SDV
Credit Terms	Net 30 Days
Page	3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		10.00			10.00
ROUND ALU 4 6061-T6 (20) RAL-4-20 5162	44.29	3.00	PI_\$CLB	0.15	UN	856.13			128.42
COUPE A LA SCIE SCIE 1 1 X 3'		1.00	UN	1.00		10.00			10.00
ROUND ALU 2 1/4 6061-T6 RANDOM RAL-214-V 5145	9.34	2.00	PI_\$CLB	2.00	PI	11.86			23.72
COUPE A LA SCIE SCIE 1 1 X 2'		1.00	UN	1.00		5.00			5.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$						3.95

Total Weight (Lbs) 737.40**Important**

This offer is based on availability and current pricing conditions that may be revised upon
 preuve de l'évolution des prix de l'acier sur le marché.
 This offer is subject to change if market conditions change.

Approved and Accepted by :

Date :

Sub-total 2 689.84

TVH-13 · 349.68

Total (\$CAD) 3 039.52